

AMENDMENTS TO THE CLAIMS

1 - 10 (Cancelled).

11. (Currently Amended) An implantable drug-delivery pump, comprising:

a housing having a reservoir adapted to retain a fluid therein;

a pump inlet port formed in the housing for delivering fluid to the reservoir;

a reservoir outlet port formed in the housing and adapted to receive fluid from the reservoir;

a driver mechanism effective to drive fluid from the reservoir to the reservoir outlet port; and

a valve ~~in~~ adapted to receive fluid communication with ~~from~~ the reservoir outlet port, the valve including a multi-lumen member coupled to a restrictor member that is adapted to selectively restrict at least a portion of one or more lumens in the multi-lumen member to thereby adjust the flow rate of fluid flowing from the reservoir.

12. (Original) The implantable drug-delivery pump of claim 11, wherein the multi-lumen member comprises a multi-lumen capillary tube.

13. (Original) The implantable drug-delivery pump of claim 11, wherein the valve is disposed within the housing.

14. (Original) The implantable drug-delivery pump of claim 13, wherein the multi-lumen member comprises a multi-lumen capillary tube that includes a first end coupled to the reservoir outlet port for receiving fluid flow from the reservoir, and a second, opposed end coupled to a pump outlet port for delivering fluid to a fluid-delivery catheter.

15. (Currently Amended) The implantable drug-delivery pump of claim 11, wherein the valve is disposed within a fluid delivery catheter that is coupled to a pump outlet port formed in the housing and ~~in~~ adapted to receive fluid communication with ~~from~~ the reservoir outlet port.

16. (Original) The implantable drug-delivery pump of claim 15, wherein the multi-lumen member comprises a multi-lumen capillary tube that includes a first end coupled to the pump outlet port, and a second, opposed end coupled to the fluid delivery catheter for delivering fluid to a patient.

17. (Original) The implantable drug-delivery pump of claim 11, wherein the multi-lumen member comprises a multi-lumen capillary tube, and wherein the restrictor member comprises a flexible membrane disposed adjacent to one of a first end or a second end of the capillary tube, the flexible membrane being effective to selectively restrict at least a portion of one or more lumens in the capillary tube.
18. (Original) The implantable drug-delivery pump of claim 17, further comprising an actuator mechanism for applying pressure to the flexible membrane to selectively restrict at least a portion of one or more lumens in the capillary tube.
19. (Original) The implantable drug-delivery pump of claim 18, wherein the actuator mechanism comprises a mechanical or electromechanical member
20. (Original) The implantable drug-delivery pump of claim 17, wherein the flexible membrane is expandable to selectively restrict at least a portion of one or more lumens in the capillary tube
21. (Original) The implantable drug-delivery pump of claim 17, wherein the flexible membrane is coupled to a housing to form a balloon-like structure such that the flexible membrane is inflatable to selectively restrict at least a portion of one or more lumens in the capillary tube
22. (Original) The implantable drug-delivery pump of claim 21, further comprising a hydraulic pump coupled to the flexible membrane and effective to selectively inflate and/or deflate the flexible membrane.
23. (Original) The implantable drug-delivery pump of claim 11, further comprising an orifice disposed downstream of the valve and in fluid communication with the valve, the orifice including a differential pressure sensor that is effective to measure the flow rate of fluid through the orifice.
- 24 - 32 (Cancelled).